

### Abstract of the Disclosure

A radio network is composed of a plurality of communications chips. The communications areas of the communications chips overlap one another. A gateway  
5 connects the radio network to another network and manages the radio network. When a radio signal is transmitted from a terminal device, each communications chip generates and outputs a corresponding radio signal in order that the signal  
10 level of the radio signal becomes a prescribed level. In this way, radio signals transmitted from a terminal device are propagated all over the area of the radio network.